Weather Station TE 529EL
USER MANUAL

INTRODUCTION :

Congratulations on your purchase of the weather station TE529EL with wireless sensor and radio controlled clock.

The basic package comes with a main unit (the temperture/clock station) and a remote unit (the thermo sensor).

The main unit has a memory for the maximum and minimum temperature and humidity of different sites. It can receive data from up to 3 remote units.

The remote units have a range up to 30 meters, this range can be influenced by several factors (concrete walls, electric wires, other sending devices, etc.).

The sensors are weatherproof and can be used outdoors, but should not be submerged into water or hung in a place where rain can reach the unit.

The clock/calendar function is radio controlled. The day can be displayed in 5 languages and the unit has a 2 minute crescendo weekly and daily alarm.

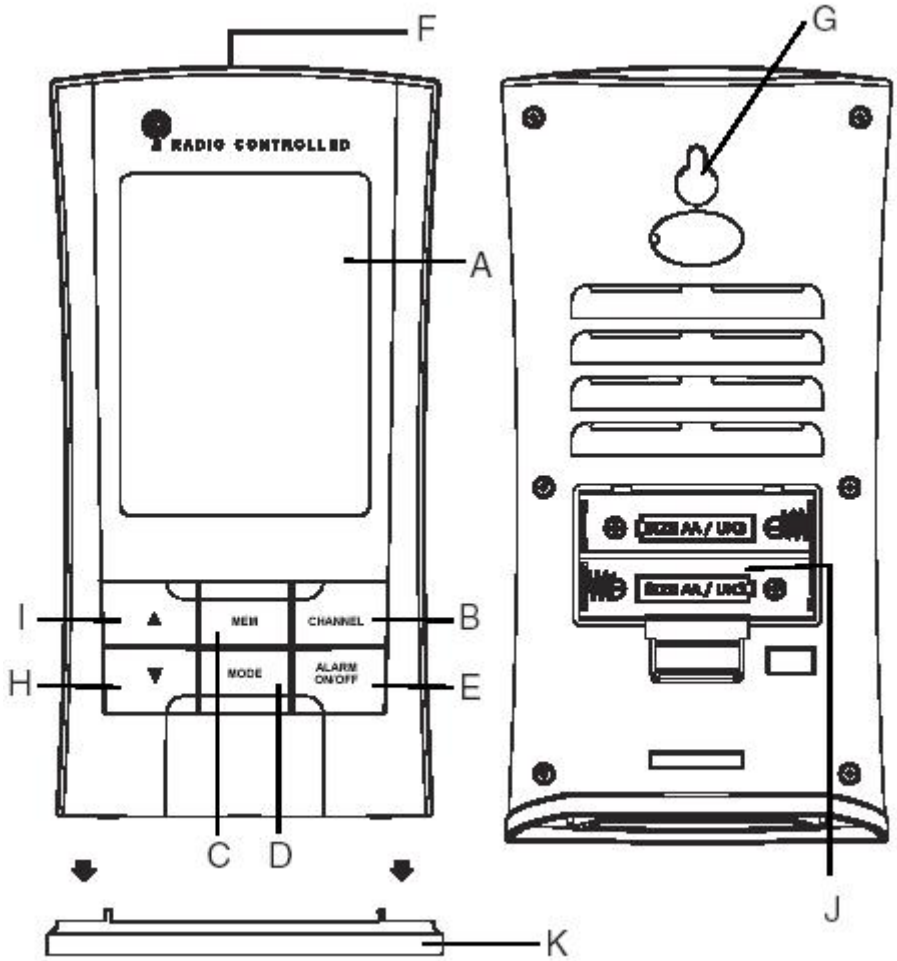
The clock is synchronised with the atom clock in Frankfurt /Main, Germany. This clock has a range of 1.500 km and your clock will receive the time signal 12 to 24 times a day and will correct, if necessary. When you first operate your clock, it can take up to 60 minutes before the radio signal is received and the correct time is set.

When you put the main unit and the remote unit next to each other, you will notice a minimal difference in temperature. This is caused by the software used and the insulation of the outdoor sensor. This sensor is calibrated on the average outdoors temperature, whereas the main unit is calibrated on the average indoors temperature. This is no defect in the units.

At temperatures below freezing point the operation can be distorted. This is caused because the batteries cannot deliver the power needed to operate the unit correctly. You can avoid this by using branded batteriees and change them just before the winter starts.

MAIN FEATURES

Main Unit



A 4 Line LC Display
Facilitates easy reading of weather forecast, indoor and outdoor temperatures, indoor and outdoor humidity, trends for temperature, calendar clock.

B Channel Button
Selection of remote sensor to be displayed (for remote sensor 2 and 3).

C Memory Button (MEM)
Recalls the maximum and minimum temperatures as well as maximum and minimum humidity for indoors and remote sensors.

D Mode Button (MODE)
Toggles the display modes and confirms entry while setting the values for display.

E Alarm Button
Displays the alarm time and sets the alarm status.

F Snooze/Light Button
Activates the snooze function and backlight.

G Wall Mount Hole
For mounting the main unit on a wall.

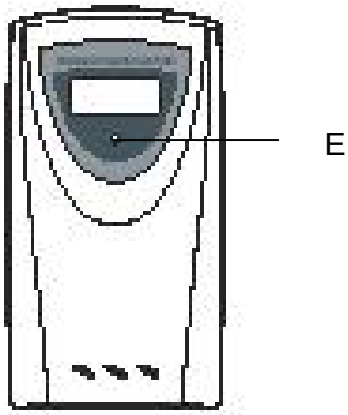
H Up Button (▲)
Advances the value of a setting or turns on or off the radio controlled clock reception.

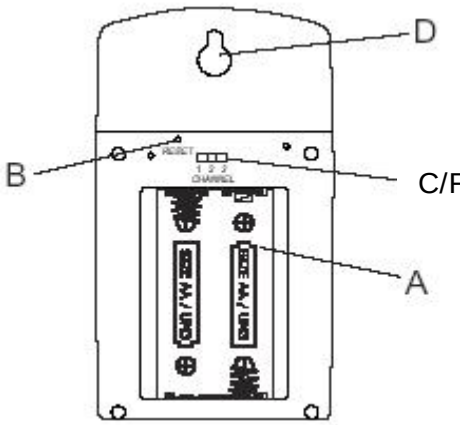
I Down Button (▼)
Decreases the value of a setting or activates the remote outdoor thermometer reception.

J Battery Compartment
Accommodates 2 Mignon batteries (1,5 V, Type AA).

K Removable Table Stand
For standing the main unit on a flat surface.

Remote Sensor Unit





A Battery Compartment
Accommodates 2 Mignon batteries (1,5 V, Type AA).
B Reset Button
Resets all functions after changing the channels.
C Channel Selector
Select the channel before the batteries are installed.
D Wall Mount Hole
For mounting the sensor on the wall.
E LED Control Light
Flashes once, when the remote unit transmits a reading.
Flashes twice, when low battery is detected on sensor unit.
F °C/°F Switch
Selects between Centigrade (°C) and Fahrenheit (°F)

Installation of Batteries

Remote Sensor:

1. Remove the 2 screws on the battery cover to open the battery compartment at the rear of the sensor.
2. Select the desired channel: 1, 2 or 3.
   Note: If you want to use more than one remote sensor, each sensor must be designated a separate channel.
3. Insert 2 Mignon batteries (1,5V, Type AA) strictly according to the polarities shown inside the compartment.
4. Close the battery cover and fix with screws.

Weather Station (Main Unit):

1. Open the battery compartment at the rear of the main unit.
2. Insert 2 Mignon batteries (1,5V, Type AA) strictly according to the polarities shown inside the compartment.
3. Close the battery cover.

Low Battery Warning

When the capacity of batteries of the remote sensor is low, a crossed battery symbol will appear in the humidity and outdoor temperature display of the main unit. Please replace both of the low batteries with new ones.

How to Use the Table Stand or Wall Mounting

The main unit has a removable table stand. It may also be mounted on the wall after removing the stand.The remote sensor can also be stood or hung on the wall.

The maximum range of the signal is 30 m. It is reduced, however – when the radio signal is interrupted by a wall, a window or the like. Depending upon the material and angle involved, the range can be reduced down to just a few meters. Different positioning of the sensor and the main unit should be tested in order to obtain an optimal location for both units before deciding upon a final position.

Though the housing of the sensor and weather station is weather proofed, we recommend to place both out of direct sunlight and protected against rain and snow.

Sending and Receiving of Radio Signal

As soon as the batteries are inserted properly, the main unit begins a two minute search for the remote sensor signal. The units are then synchronized. The remote sensor transmits readings with temperature and humidity data approxymately every 45 sec. Reception at the main unit is confirmed on the LC display, when the received outdoor temperature and humidity is updated. The main unit will automatically update its readings in intervals of approxymately 45 sec. For control purposes the LED on the remote sensor is lit during the transmission.
If no signal are received, blanks "**--,-**" will appear in the LC display of the main unit. Press

button for 2 sec. To enforce another search whereby the main unit and remote sensor will again be synchronized.

Indoor and Outdoor Temperatures

The outdoor temperature appears in the middle of the LC display an in the lower part the indoor temperature is shown. If the transmission from the remote sensor to the main unit is interrupted for more than 2 minutes"--,-" begins to blink in the display. When this occurs check the remote sensor. You may wait until the radio signal is transmitted again or press ▼ button for 2 sec.. The main unit and remote sensor will again be synchronized.

Indoor and Outdoor Humidity

Along with the teperature the humidity is shown on the LC display in %. On the lower line you will fid the indoor values and on the upper the outdoor values. Data is transferred simultaneously from the remote sensor for both outdoor humidity and temperature. When the transmission is interrupted, "**--,-**" appears in the humidity field of the display.

Interrupted Radio Signal Transmission

If the main unit does not register signals from the sensor , "**--,-**" will appear in the display of the main unit. In this case press ▼ button for 2 sec. to synchronize the main unit with theremote sensor. If this fails please check the following:

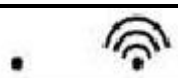
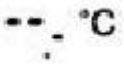
1. The remote unit is still in place.
2. The batteries of both the remote unit and main unit. Replace if necessary.

Note: When the temperature falls below freezing point, the batteries of outdoor units cannot support a sufficient voltage. The effective range can lower to a few meters.

3. The transmission is within range and path is clear of obstacles and interference. Shorten the distance when necessary.
4. Signals from other household devices such as computers, TV, security systems, mobile phones etc. may interfere with the radio signals of this unit. If necessary, please relocate weather station and sensor(s).

Status of the Signal Transmission

3 possible forms of transmission can be shown in LC display of themain unit:

The unit is in searching mode	
Temperature readings are securely registered	
No signals	

Maximum and Minimum Temperature and Humidity

The weather station automatically stores the respective maximum and minimum values for temperature and humidity for indoors and outdoors. To display these values press the MEM button:

- Press once for display of minimum values for temperature and humidity stored since the last clearing of the memory. The display will indicate MIN.
- By pressing the MEM button a second time the maximum values for temperature and humidity will be displayed. The display will indicate MAX.
- By pressing the MEM button for 2 seconds stored values will be erased. The automatically storing of minimum and maximum values begins anew.

The minimum and maximum values of the selected remote sensor (1,2, or 3) are also displyed by pressing the MEM button. Each channel must be cleared separately.

Trend Display for Temperature and Humidity

The LC display of the main unit has four trend indicators, which depict the tendence the temperature and humidity will be changing.

- Trend arrow for indoor temperature
- Trend arrow for outdoor temperature

- Trend arrow for indoor humidity
- Trend arrow for outdoor humidity

Arrow indicator			
Temperature Humidity Trend	Rising	Steady	Falling

Comfort Level Indicator

The comfort level indicators COMFORT, WET or DRY will tell you if the current environment is comfotable, too wet or too dry. The following indicators will be displayed on the weather station:

Display	Temperature Range	Humidity Range	Reflects
COMFORT	20°C to 25° C	40% to 70%	Ideal range for both relative humidity and temperature
WET	-5°C to +50° C	over 70%	Excess moisture
DRY	-5°C to +50° C	under 40%	Too dry (inadequate moisture)
No indicator	under 20°C or over 25° C	40% to 70%	No comment

Weather Forecast

The unit is capable of detecting atmospheric pressure changes. Based on collected data it can predict the weather for the forthcoming 12 to 24 hours.

Display					
Forecast	Sunny	Partially Cloudy	Cloudy	Rain	Snow

Note:

- The accuracy of a general-based weather forecast is 70%.
- The weather forecast indicates the forthcoming change and not necessarily the current situation.
- The symbol “sunny” applies also to night time. It indicates clear sky/without clouds.

Atmospheric Pressure Trend Indicator

The atmospheric pressure indicator in the weather forecast window of the main unit uses arrows to indicate trend changes in atmospheric pressure and therefore weather changes:

Arrow indicator			
Pressure Trend	Rising	Steady	Falling

Rising pressure = the weather is changing for the better
Falling pressure = the weather is changing for the worst

Radio Controlled Clock

The weather station is equipped with a radio controlled quartz clock. It functions with utmost precision and is silent. The change from normal time to day light savings time is automatic.

- After the batteries are inserted the clock will automatically search for the radio signal. This process is completed within 3 to 5 minutes.

- As soon as the radio signal has been received the time will be displayed (hour, minutes and seconds). The symbol will appear in the display as confirmation of radio signal reception.
- If the search for the radio signal is not successful this symbol will not appear. Instead the symbol for signal search will be displayed. In this case the time has to be set manually.
- Press button for 2 sec., in order to switch off the radio controlled quartz function. The symbol for radio signal transmission will be deleted. By pressing the button again for 2 sec. , the radio controlled reception will be turned on again.

Note: The radio controlled signal for time (DCF 77) is transmitted from the central atomic clock in Frankfurt/Main, Germany.

Time and Date Display Modus

The main unit receives and displays together with the time signal the effective date. The MODE is used to obtain this information.

- Press 1 x and the time and weekday appears (hour, minutes and weekday).
- Press 2 x and the time and weekday for a second time zone appears (hour, minutes and weekday).
- Press 3 x and the time with seconds of the second time zone appears (hour, minutes and seconds).
- Press 4 x and the actual date appears (day and month).

Manual Setting of Date, Time and Temperature

By pressing the MODE button for 2 sec. the value to be changed begins to blink. Use the button to reduce and the button to increase the value. If the values are not numerical, the and button will offer other possibilities. By pressing the MODE button the blinking, which indicates the value to be changed, will move forward.

So the following values may be set:

1. Country (Germany=DE)
2. Select °C/°F
3. Calender Year
4. Month
5. Day
6. Sequence of Date (ay and onth or month and day)
7. Hour Format (12 or 24 hour)
8. Hour
9. Minutes

Note: When setting hours anew, the seconds return to 00.

Setting of the Second Time Zone

The actual time of a second time zone is programmed with the MODE button by calling up the appropriate display. ZONE will appear in front of the time display.

Press MODE button for 2 sec. until 0:00 starts to blink in the LC display. Set the difference between the local time and second time zone by using the and buttons, which will advance ore decrease in 30 minute increments. The second time zone can differ between –13 and +15 hours from local time. Confirm data entered with a short pressing of the MODE button.

Alarm

The weather station has an integrated alarm with 3 functions:

1. Weekday alarm: The alarm is activated at the same time each day at the preset time. W appears in the display.
2. Single alarm: The alarm is activated for one time waking. S is shown in the display.
3. Pre-alarm: When the outdoor temperature sinks to 2°C or below, the preset alarm (single alarm or weekday) can be activated 15, 30, 45, 60 or 90 minutes earlier than the selected waking time. PRE-ALARM will then be displayed.

Setting the Alarm

Press ALARM button on the upper side of the unit to select modus W, S or PRE-ALARM. Then press ALARM button for 2 seconds until the hour display of the< alarm begins to blink. By pressing ▼ or ▲ you can increase or decrease the hour value. The press ALARM again to confirm hour values. The minute display then begin to blinkj. Follow the same procedures as for the hour value.

Snooze Alarm and Display Lighting

The SNOOZE button is on the upper side of the weather station. The alarm is deactivated upon pressing this button for approximately 8 minutes after which it sounds again. By pressing ALARM the alarm can be turned off.
The SNNOZE function is combined with a lighting of the display for approximately 4 seconds.

Activating / Deactivating Alarm Setting

By pressing ALARM at the upper side of the weather station you activate the alarm modus W, S or PRE-AL. Deactivation is done by pressing ▲ , to turn the alarm off, or ▼, to reactivate the alarm.

Precautions

- In the case of a defect do not attempt to take the weather station apart or repair yourself as the guarantee is then invalid.
- The weather station is a technical precision device, which can be damaged by dropping, banging or other forceful treatment.
- The main unit is not weather proof. It should therefore be protected from rain and humidity, which could otherwise cause damage.
- Never attempt to clean the weather station with benzine or other abrasive cleaning solutions.

Specifications

Barometer:

- Weather forecast for approximately 12 to 24 h depicted symbols
- Humidity trend indicator

Thermometer

- Radio signal transmission of temperature data from up to 3 remote sensors (one sensor included)
- Radio signal transmission range max. 30 m
- Measured outdoor temperature range: -20°C to + 60°C
- Built-in sensor for room temperature:
- Measured indoor temperature range: -5°C to + 50°C
- Temperature trend indicator
- Minimum and maximum temperature stored in memory

Hygrometer:
- Display of 25% to 95% for indoor and outdoor humidity
- Hymidity trend indicator
- Minimum and maximum humidity stored in memory
- Comfort level indicator: WET, COMFORT, DRY

Radio Signal Controlled Clock
- Precise, silent and battery operated
- Radio signal controlled time (DCF 77) with automatic change between daylight savings time and normal time
- Radio signal reception can be switched off
- LC display of time, date, weekday and two time zones
- 2 alarm functions and pre-alarm

General:
- Transmission frequency: 433 MHz
- Power supply for main unit and remote sensor: each 2 Mignon batteries (1,5V, Type AA)
- Stand or wall hung
- Main unit: 95 x 174 x 30 mm and 231g (without batteries)
  Remote Sensor: 55 x 101 x 24 mm and 60g (without batteries)

Important Note
1. The above content and the devices are subject to changes without prior notice.
2. The manufacturer and its suppliers hold no responsibility to you or no any other person for any damage expenses, lost profits, or any other claims arisen by improper handling, misuse or failure to comply with the correct use of this product as described in this instruction manual.

EC-DECLARATION OF CONFORMITY

Product. TE529 EL

This product contains the approved transmitter and complies with the essential requirements of Article 3 of the R&TTE 1999/5/EC Directives, if used for its intended use and that the following standard(s) has/have been applied:

Efficient use of radio frequency spectrum
(Article 3.2 of R&TTE 1999/5/EC Directive)
applied standard(s) **EN 300 220-1,3:2000**

Electromagnetic compatibility
(Article 3.1b of R&TTE Directive)
applied standard(s) **EN 301 489-1,3:2000**
applied standard(s) **EN 300 339:2000**

Additional information:
The product is therefore conform with the Low Voltage Directive 73/23/EC, the EMC Directive 89/336/EC and R&TTE Directive 1999/5/EC (appendix II) and carries the respective CE Marking.

RTTE Compliant Countries:
All EU countries, Switzerland (CH) and Norway (N)

QA MANAGER : H.Y.WANG
K.S plastic factory
Guan Lan / Shen Shen / China

CE

Important Notes
Precautions with regard to batteries
Batteries can be highly dangerous, if swallowed.

Therefore it is necessary to keep the batteries and the appliance out of reach of small children. If a battery has been swallowed, seek medical advice immediately.

Always remove batteries as soon as they are empty, as they might leak and cause damage. Please replace always all batteries at the same time.

The batteries provided must not be charged or re-activated by any other means! They must not be dismantled, thrown into fire or short-circuited!

Batteries need to be disposed off properly. For this purpose, shops selling batteries provide special containers for environmentally friendly disposal. Furthermore, empty batteries will be taken back at public waste collection points.

Waste Management

At the end of the life cycle of the blood pressure monitor please make sure, that it is disposed off properly. The waste management of this unit has to be in line with the national law transferring the WEEE-directive of the European Union into national law of the country where you are living.

GUARANTEE

Within the guarantee period of 24 months, effective from the date of purchase, repairs of this device will be done free of charge, if the defect is caused by material defects or errors in the manufacturing process. During the guarantee period the defective unit can be returned to the beneath mentioned service address. You will either receive a new or repaired unit free of charge, if the guarantee applies.

If the guarantee period is run out you have also the possibility to return a defective unit to the beneath mentioned address for repair. These repairs will be charged accordingly.

The guarantee does not apply for defects caused by improper treatment of the unit, as e.g. breaking as a consequence of a hard fall or improper use due to the fact that the instruction booklet was not studied carefully. The guarantee does also not apply, if unauthorized persons or companies have tried to repair a defective unit.

If you have to apply unfortunately for a guarantee please contact beneath mentioned telephone number or send the defective unit to the beneath mentioned service address. Please take care that following information is included in your mail:

1. Description of the defect
2. Invoice with date of purchase

Defective units without this information will be repaired at your expense and returned to the sender by cash on delivery.

Service:
SBC Buchsbaum GmbH
Franzensgasse 26 / Top I
A-1050 Wien

phone: +43-1- 585 5838
facsimile: +43-1- 585 5935
E-Mail: office@SBC-Buchsbaum.at

Manufacturer:
Hideki Electronics Limited
88 Lei Muk Road,
Kwai Chung, N.T.
Hongkong

Importer into the EU:
SBC Buchsbaum GmbH
Franzensgasse 26 / Top I
A-1050 Wien